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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/528,679	03/21/2005	Pieter Werner Hooijmans	NL 020893	4625
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EXAMINER				
HUYNH, SON P				
ART UNIT		PAPER NUMBER		
2623				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/528,679

Applicant(s)

HOOIJMANS ET AL.

Examiner

SON P. HUYNH

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 March 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-946)
- 3) ☒ Information Disclosure Statement(s) (PTO/SF/ICE)
Paper No(s)/Mail Date 9/11/05
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 5-6, 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Ho (US 6,622,307 B1).

Regarding claim 1, Ho discloses a head end comprising a low noise converter for providing signal bands including channels to one of more user units, characterized in that the low noise converter is arranged as a low noise channel converter, which includes frequency multiplexing means for multiplexing one or more user pre-selected channels to the user units (head end comprises MIRD unit 102, LNB 122, etc. the LNB provides signal bands including channels to one or more user unit in rooms 142-148, the received signal is converted into different channels and signal combiner 110 for combining one or more user pre-selected channels to user units in rooms 142-148 - see

include, but are not limited to, figures 3-4a, 10-11, col. 7, line 40-col. 8, line 36, col. 9, lines 12-31, col. 11, lines 8-41).

Regarding claim 5, Ho further discloses the satellite receiver system further comprises one or more user units coupled to the low noise channel converter (see include, but are not limited to, figures 3, 10).

Regarding claim 6, Ho discloses the system as discussed in the rejection of claim 5. Ho further discloses coupling between the low noise channel converter and the user units contains a single communication medium, generally a coaxial cable (e.g., coupling between LNB and the user units in rooms 142-148 contains single coaxial cable 134-figure 3, col. 8, lines 8-36).

Regarding claim 10, Ho further discloses the head end includes a combining circuit (e.g., signal combiner - see include, but is not limited to, figure 10), and that the satellite receiver system further comprises a parallel arrangement of one or more further low noise channel converters couple to the combining circuit (e.g., dual LNB coupled to signal combiner - see include, but are not limited to figure 3, col. 7, line 40-col. 8, line 36).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ho as applied to claim 10 above.

Regarding claim 11, Ho discloses the system as discussed in the rejection of claim 10. Ho further disclose each low noise channel converter is coupled to a tuner for tuning on individual user selected receiving channel (see include, but are not limited to, figures 3-4a, col. 8, line 51-col. 9, line 32). Ho does not explicitly disclose each low noise channel converter is provided with further local oscillator means.

Official Notice is taken that providing local oscillator means with low noise channel converter for tuning on a selected receiving channel is well-known in the art; For example, providing local oscillator with low noise block/converter for changing channel frequency to a selected receiving channel. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Ho with the well known teaching of providing local oscillator with the low noise converter in order to change frequency to a desired channel.

5. Claims 2-4, 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ho as applied to claim 1, and further in view of Tsurumi (US 6,714,262).

Regarding claim 2, Ho discloses the system as discussed in the rejection of claim 1. Ho does not explicitly disclose the local oscillator means coupled to the low noise channel converter.

Tsurumi discloses local oscillator means coupled to the low noise channel converter (see include, but are not limited to, col. 4, lines 45-58). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Ho with the teaching of using local oscillator coupled to the low noise converter as taught by Tsurumi in order to change the frequency of the intermediate frequency signal (col. 3, lines 26-28).

Regarding claim 3, Ho in view of Tsurumi discloses the system as discussed in the rejection of claim 2. Tsurumi further discloses the local oscillator means are arranged for providing a variable local oscillator frequency (e.g., control unit sends PLL data for changing the frequency of the local oscillator signal to the PLL synthesizer 10 - see include, but are not limited to, col. 6, lines 50-65).

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Regarding claim 4, Ho in view of Tsurumi discloses the system as discussed in the rejection of claim 2. Tsurumi further discloses the oscillator means comprises one or more phase locked loop (see include but are not limited to, col. 6, lines 50-65, figure 2).

Regarding claims 7-9, the additional limitations correspond to the additional limitations of claims 2-4, and are analyzed as discussed with respect to the rejection of claims 2-4.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chanteau (5,905,941) discloses television signal cable distribution installation.

Carr et al. (US 6,377,315 B1) discloses system and method for providing a low power receiver design.

Green, Sr. et al. (US 6,122,482) discloses satellite broadcast receiving and distribution system.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SON P. HUYNH whose telephone number is (571)272-7295. The examiner can normally be reached on 9:00 - 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher S. Kelley can be reached on 571-272-7331. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Son P Huynh/
Primary Examiner, Art Unit 2623

March 10, 2008